Wiring Guide

EP.NMINI

Version 1.02 Last Updated: 14-10-2014

Note:
See http://www.entrypass.net/ for updates, revisions, and download the latest installation manual

There are currently 2 version of EntryPass Platform1 Access Control System available for different card number system

1) EntryPass Platform1 Access Control System (6 Digit Card Number System) cater for 6 digit card number installation

2)EntryPass Platform1 Access Control System (10 Digit Card Number System) cater for 10 digit card number installation

For EntryPass Platform1 Access Control System to work correctly, both control panel and software **MUST** be using the same card number system
This software installation manual might be updated without prior notice

Please refer to separate EntryPass Platform1 User Manual for detail operation help. The Official EntryPass Platform1 User Manual can be downloaded from our website under “Download” section

Before you begin

Technical Support

If you cannot find the answer to your question in this manual or in the Help files, we recommend you contact your system installer. Your installer is familiar with your system configuration and should be able to answer any of your questions.

Should you need additional information, please call our Technical Support Help desk, Monday to Friday 9:00 AM to 6:00 PM (GMT +8:00)

Method Details
Phone + 60 (3) - 8068 1929
Fax + 60 (3) - 8068 1922
Internet www.entrypass.net
Email support@entrypass.net

Considerations Prior to Installation

Preparing Your EntryPass Controllers

EntryPass controller contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Thus, prior to installation, please follow the instruction below:

- Observe precautions while handling the circuit board assembly by using proper grounding straps and handling precautions at all
- Visually ensure no onboard parts is broken, damage or contains burn mark
- Do not turn on the power supply until you completed all wiring and external add on devices installations

CAUTION
Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire. To prevent a risk of explosion do not pry the battery out with a metal or conductive tool.

Instances of Non-Warranty

- Damage due to natural disaster, accident or human cause.
- Damage as a result of violating the conditions recommended in the user manual
- Damage due to improper installation
- Damage due to use of uncertified components
- Damage due to use exceeding the permitted parameters

NMiNi Description

NMiNi Reader
Keypad Display Unit

Networked Lock Control

NMiNi Color Description

NMiNi Reader Color Description

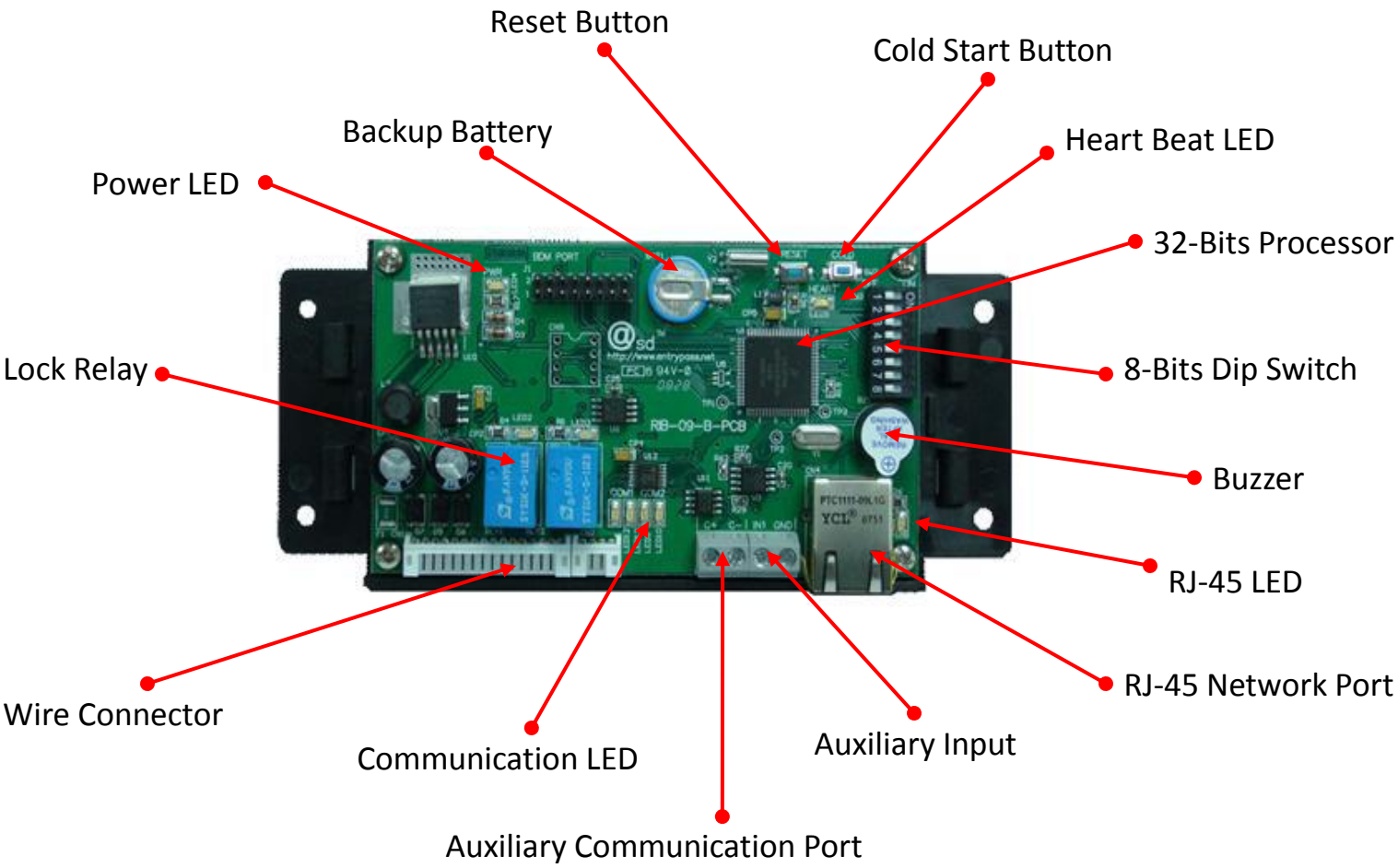
Red	: +12VDC
Black	: GND / 0VDC
Pink	: Not In Used
Black	: GND / 0VDC
Blue	: Not In Used
Brown	: Not In Used
White	: Exit Reader D1
Green	: Exit Reader DO
Orange	: Not In Used
Yellow	: Not In Used
Grey	: Not In Used
Purple	: Not In Used
Green	: RS232 RX Separated
White	: RS232 TX Separated

Networked Lock Control (NLC) Description

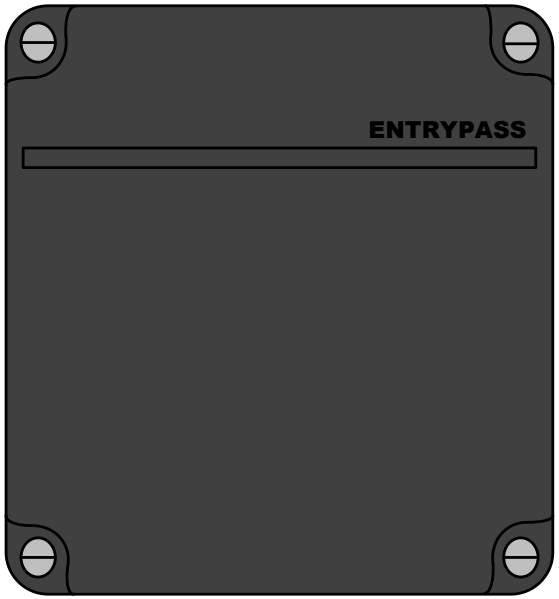
Red / Yellow	: +12VDC
Black	: GND / 0VDC
Orange	: Door Sensor
Yellow	: Not In Used
Blue	: Not In Used
Pink	: Push Button
Red	: +12VDC
Black	: GND / 0VDC
Grey / Yellow	: NO1
White / Blue	: CM1
White	: NC1
Brown	: NO2
Grey	: CM2
Green	: NC2
Purple	: +12Vdc Lock
Purple	: +12Vdc Lock
Green	: RS232 TX Separated
White	: RS232 RX Separated

NMiNi Reader Keypad Display Unit

Networked Lock Control (NLC)

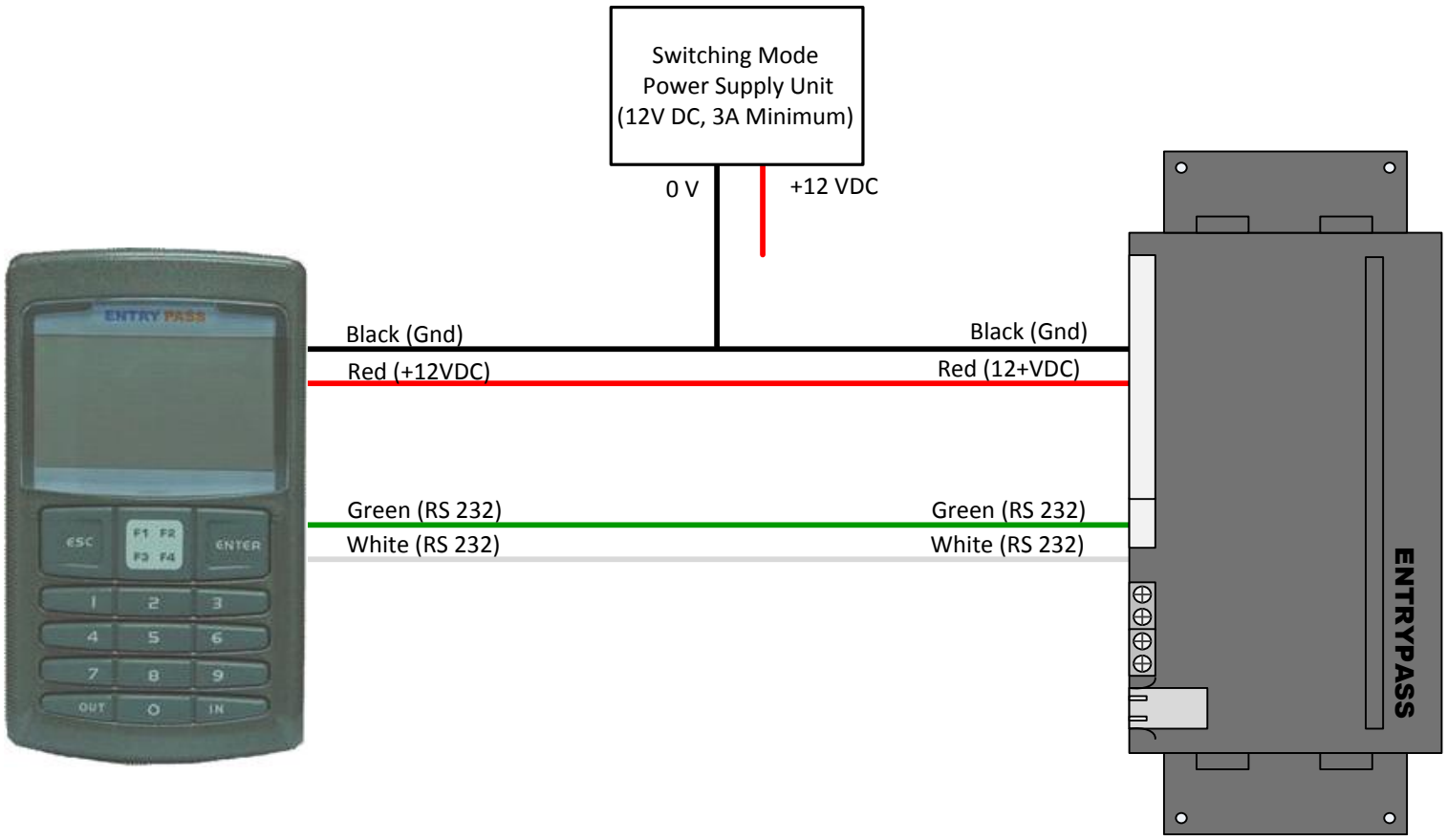


Power Supply Unit Specification



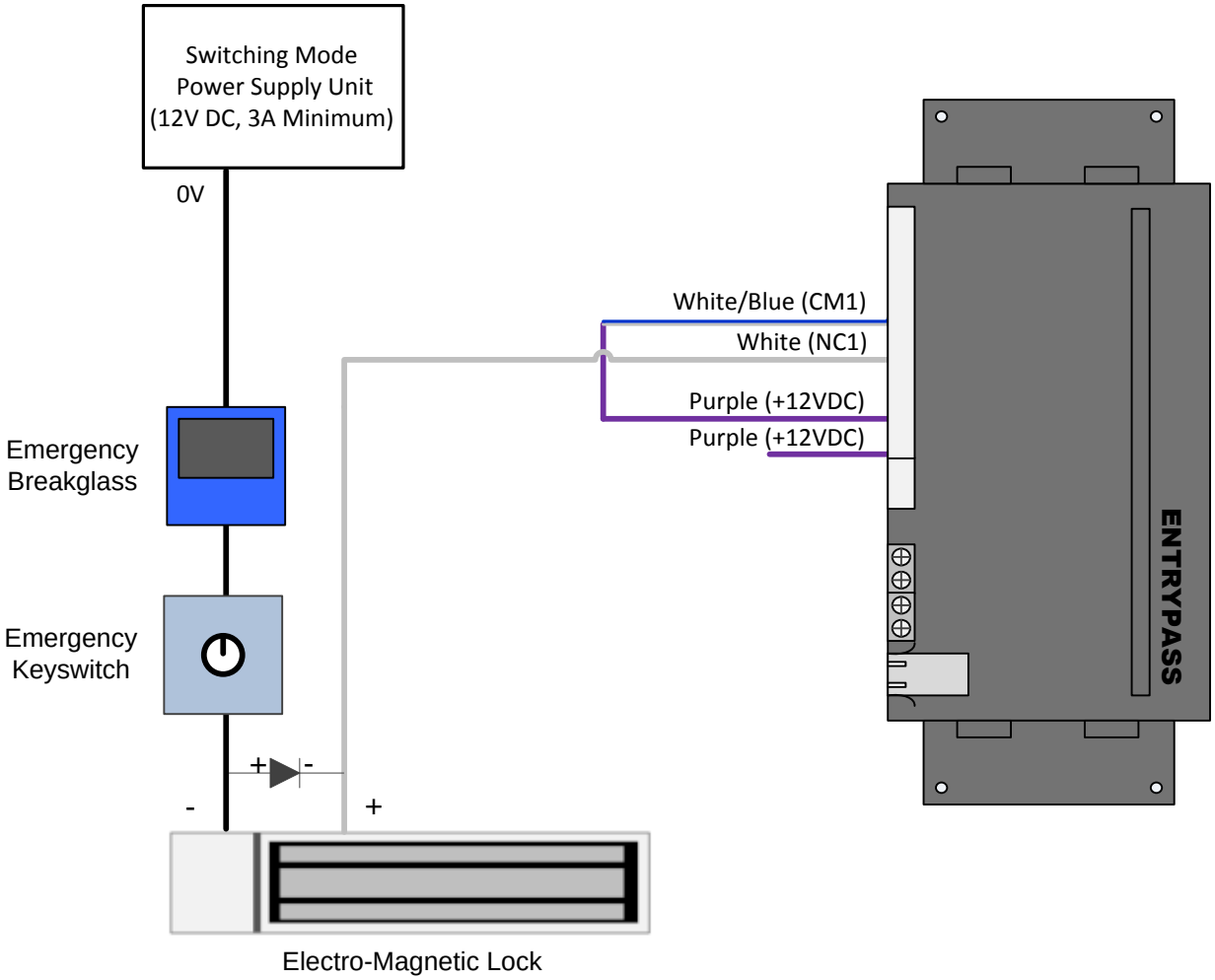
Power Supply Unit Specification:
- Switching Power Supply
- 12V DC
- 3 Amp (Minimum)

Connecting NMINI to NLC



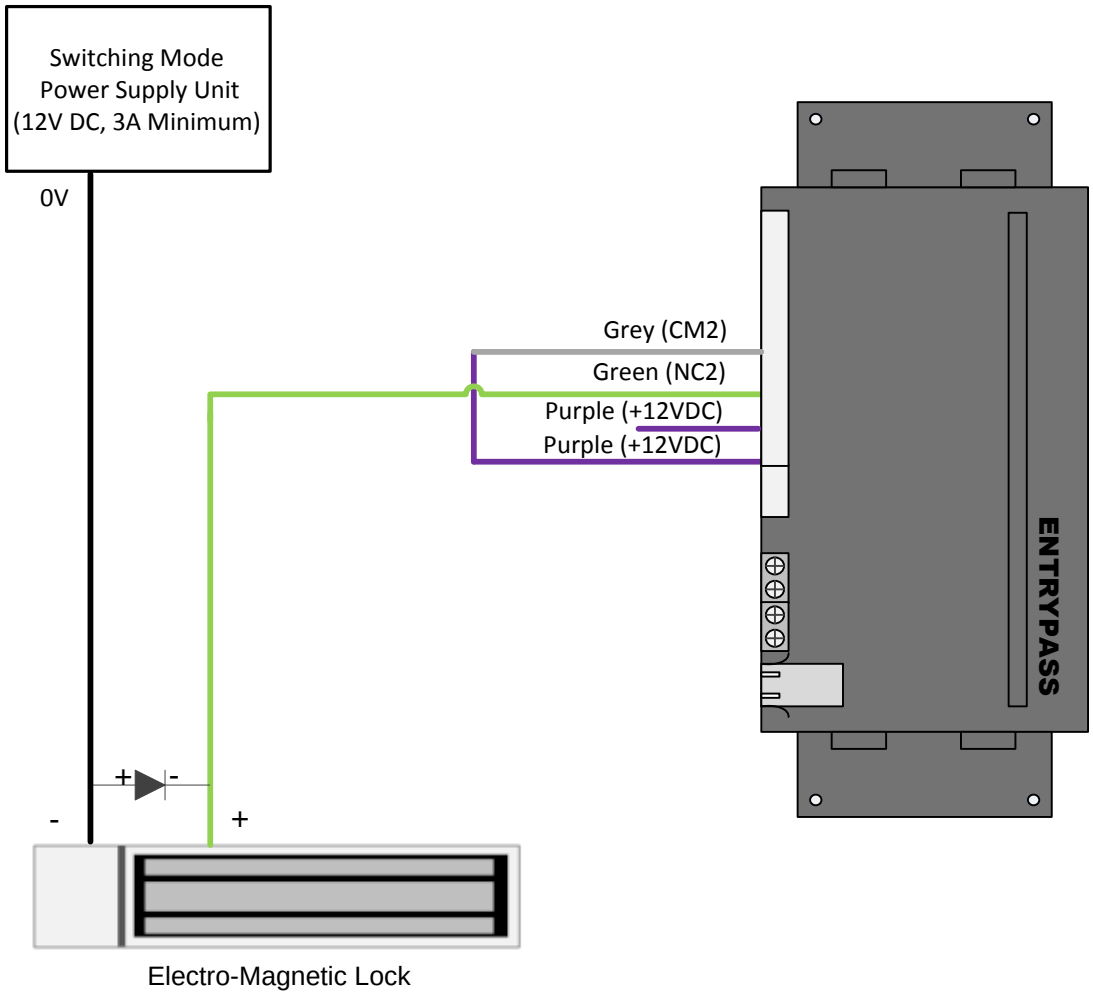
The distance from NMINI keypad reader to NLC should not more than 30 meter

Connecting the Lock (NC), Breakglass and Keyswitch to NLC



Diode(1N4002) must be installed at the locking devices in order to protect against back EMF

Connecting the second lock (NC) if the door is a double leaf type (OPTIONAL)

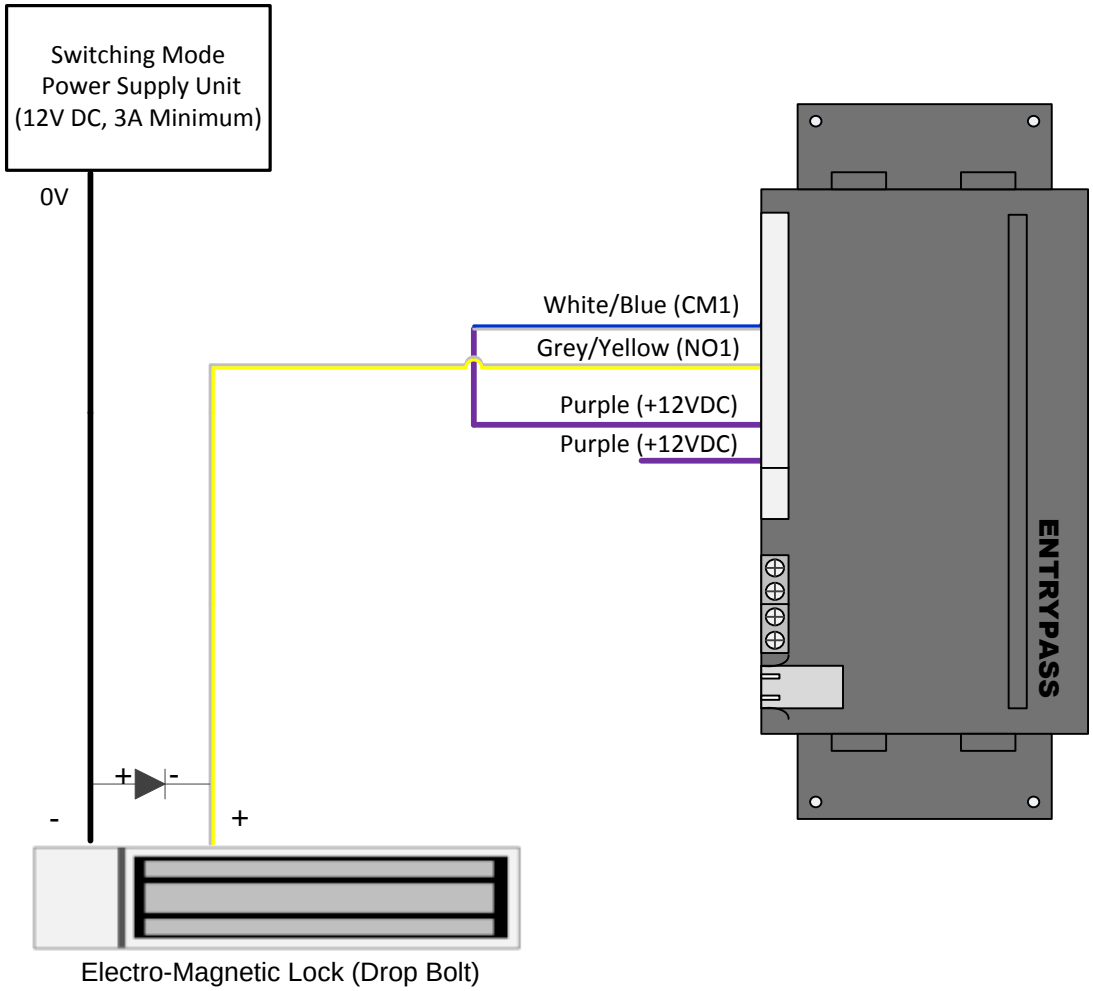


Note:
To enable the relay 2 function, on the NMINI keypad reader, press:

- F1
- 123456
- 01 Enter
- 01 Enter
- 07 Enter
- 1 Enter
- ESC x3

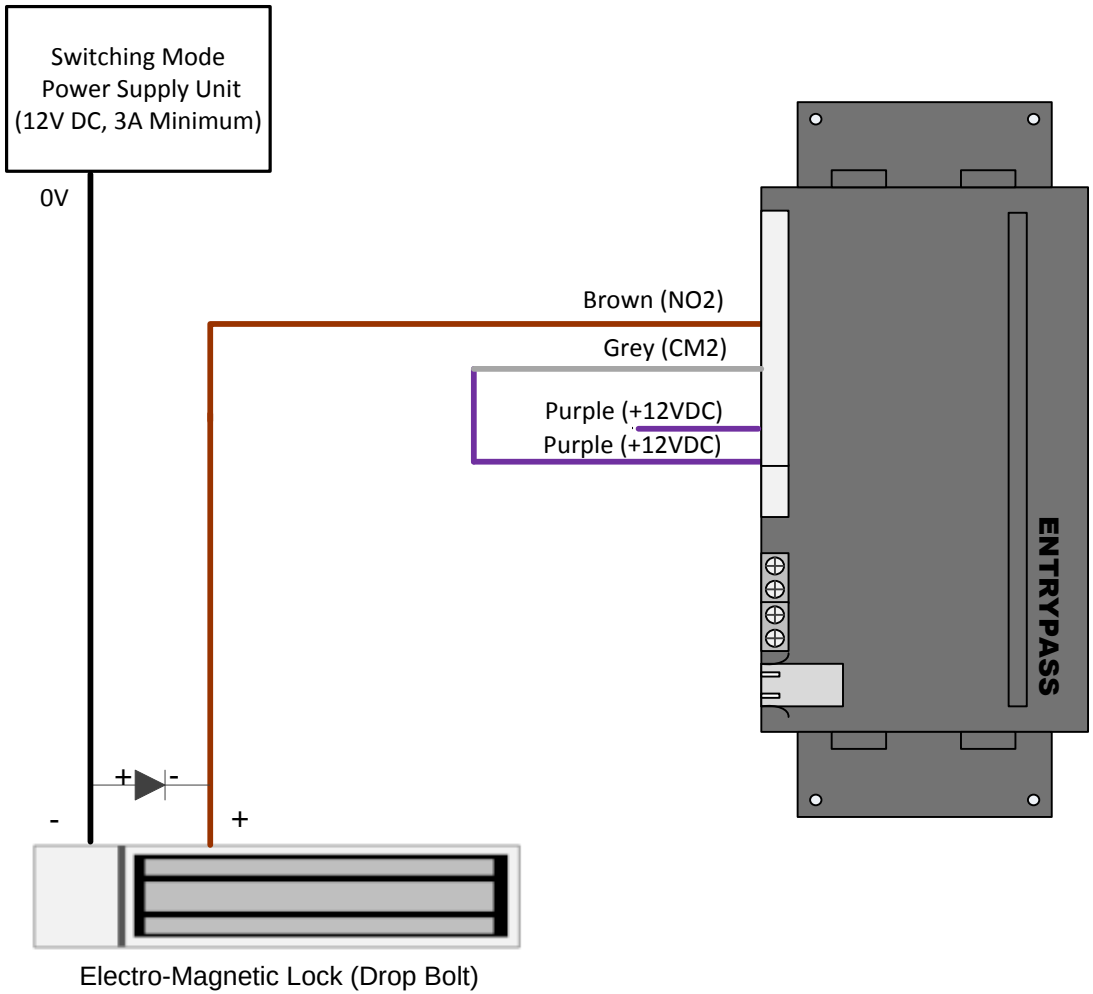
When the implementation is on double leaf type, it is advisable to use the second relay to control another lock in order to reduce the NLC onboard relay load

Connecting the Lock (NO)



Diode(1N4002) must be installed at the locking devices in order to protect against back EMF

Connecting the second lock (NO) if the door is a double leaf type (OPTIONAL)

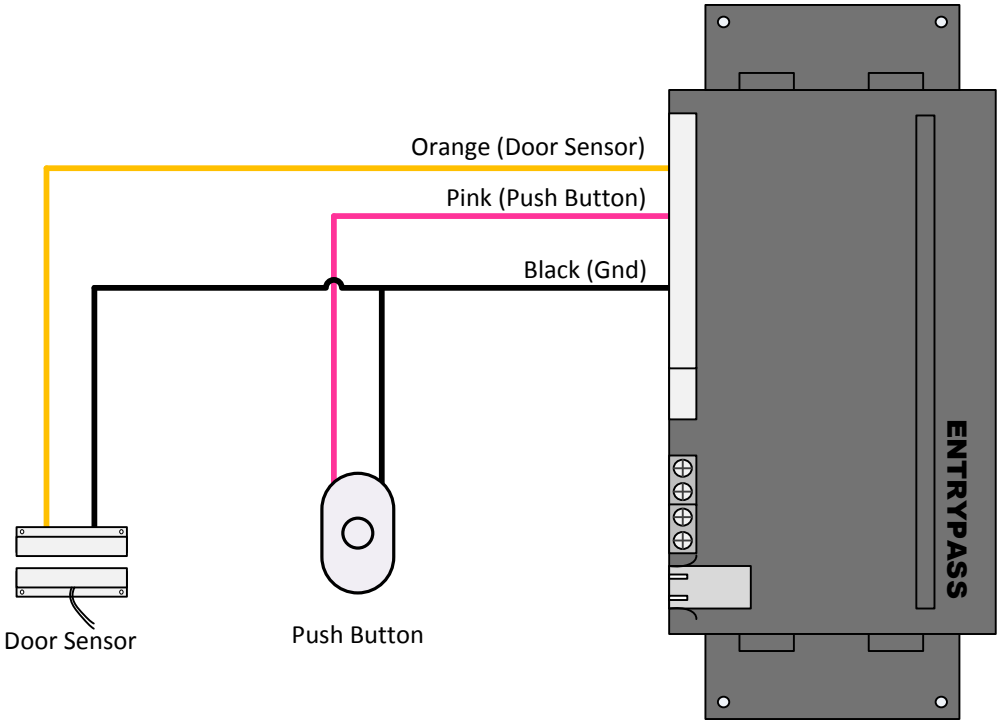


Note:
To enable the relay 2 function, on the NMINI keypad reader, press:

- F1
- 123456
- 01 Enter
- 01 Enter
- 07 Enter
- 1 Enter
- ESC x3

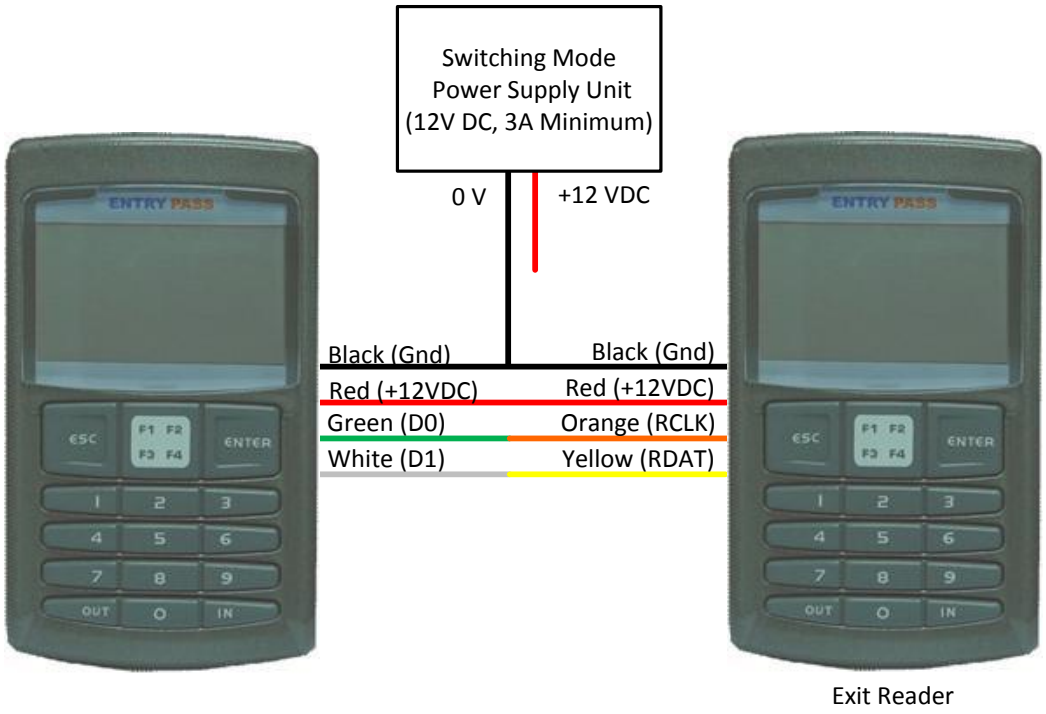
When the implementation is on double leaf type, it is advisable to use the second relay to control another lock in order to reduce the NLC onboard relay load

Connecting the Door Sensor and Door Release Button/Push Button



The distance from NLC to push button and door sensor should not more than 30 meter

Connecting the Exit Reader – NMINI reader as an exit reader

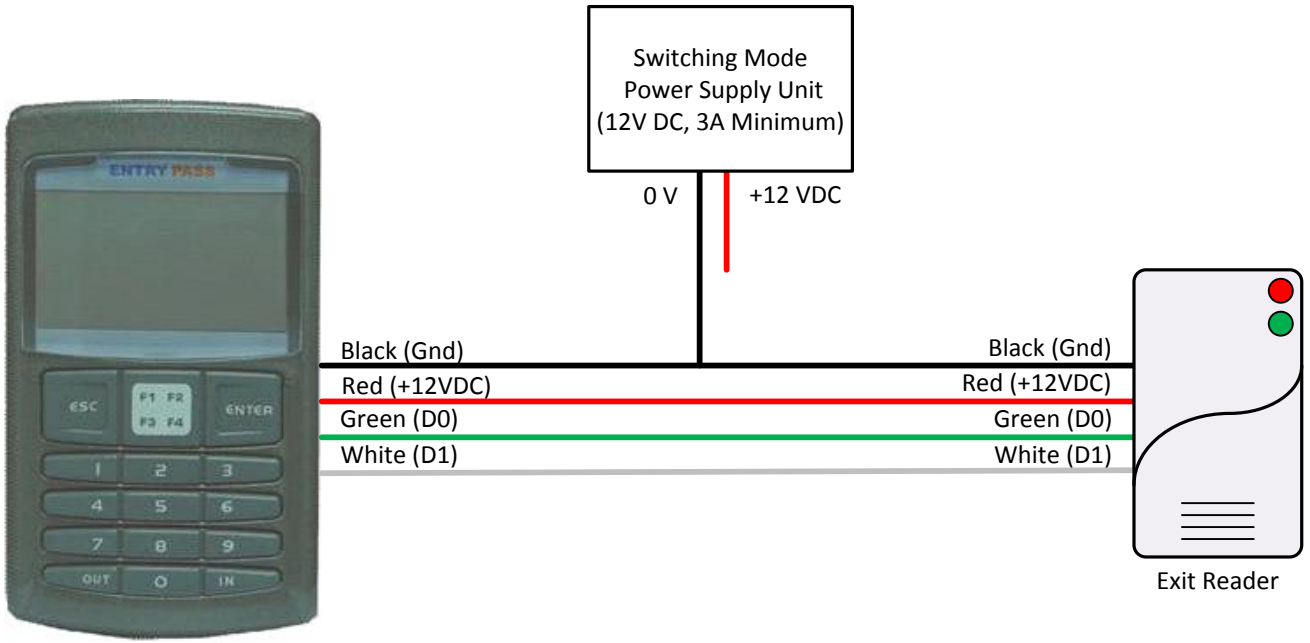


To configure **NMINI** as a READER Mode, press:
- •F1
- •123456
- •01 Enter
- •01 Enter
- •04 Enter
- •1 Enter
- •ESC x3

To configure **MINI** as a READER Mode, press:
- •F1
- •123456
- •01 Enter
- •01 Enter
- •05 Enter
- •1 Enter
- •ESC x3

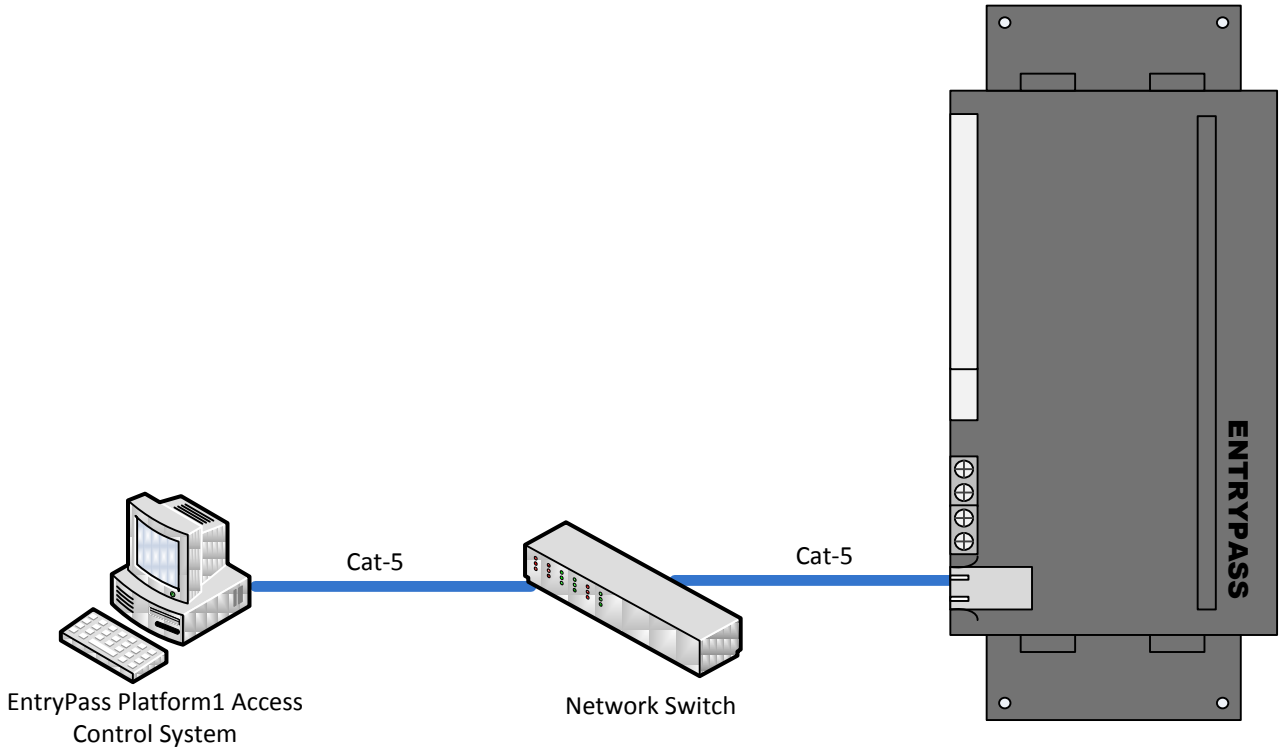
To use NMINI/MINI on exit reader side, you must enable the READER MODE function on the programming mode

Connecting the Exit Reader – 3rd Party Reader



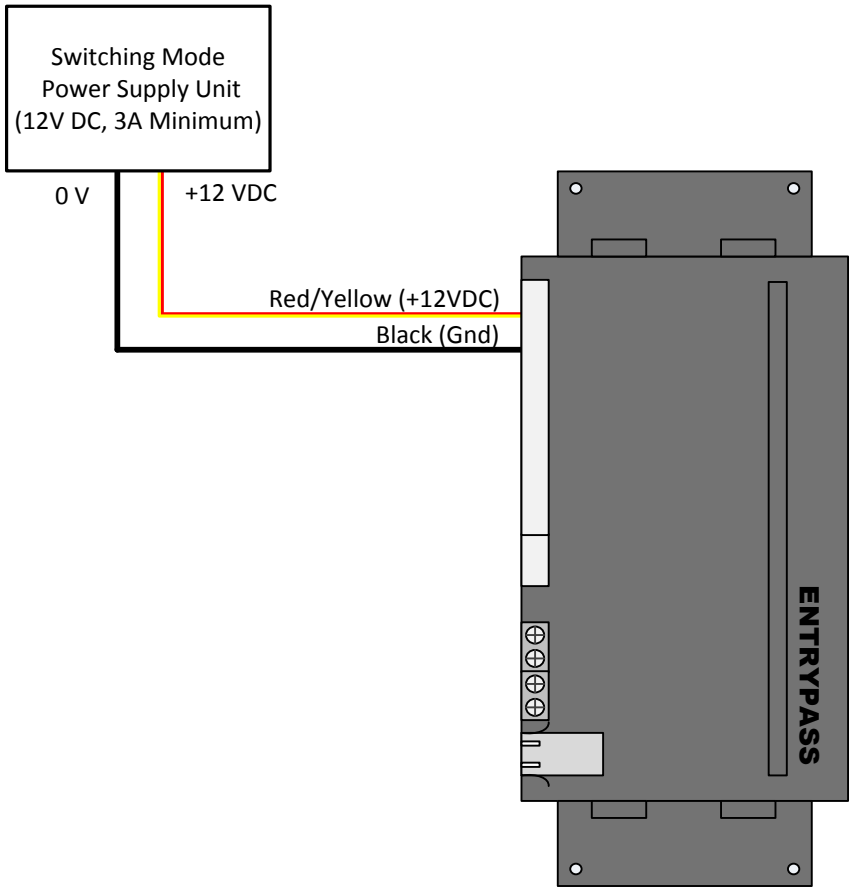
The distance from NMINI keypad reader to exit reader should not more than 10 meter

Connecting to the PC (EntryPass Platform1 Access Control System)

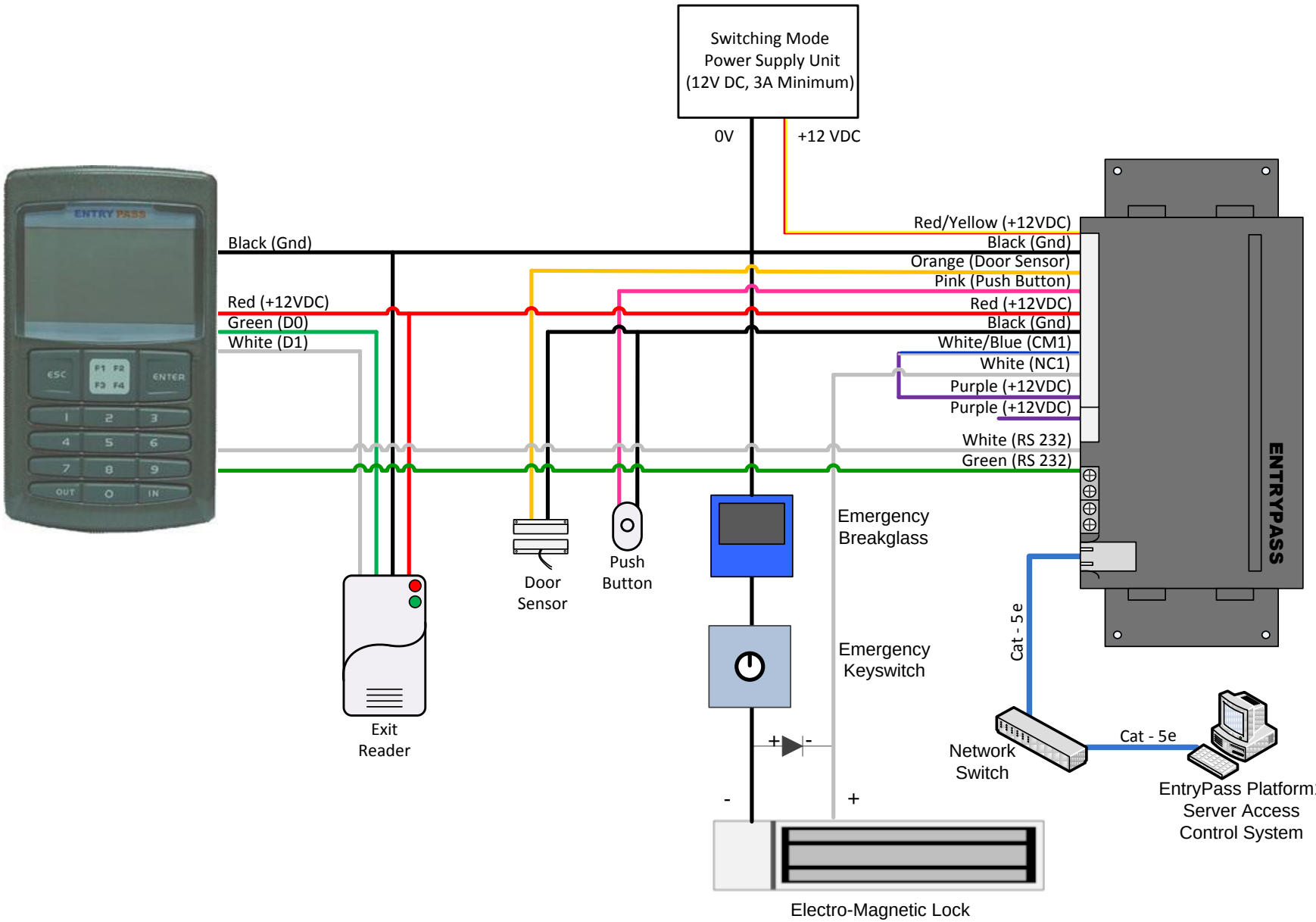


The distance from NLC to network switch should not more than 150 meter

Connecting to the power supply unit

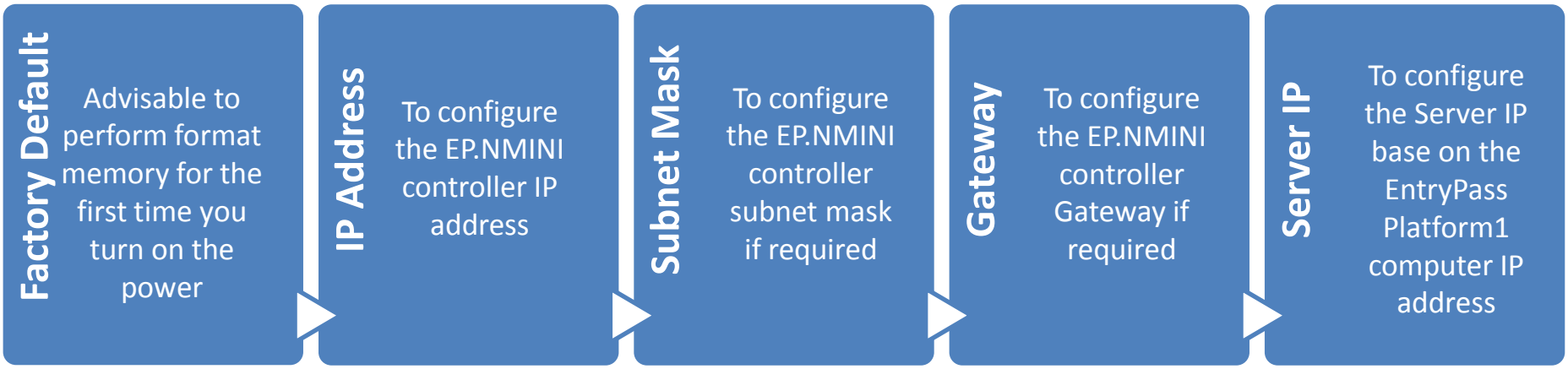


Complete overview



Before connecting to the EntryPass Platform1 Access Control System

Before you begin to connect to the EntryPass Platform1 Access Control System, please make sure all the wiring connection is correct. On the NMINI keypad, please make sure the following setting has been done:


Factory Default
Advisable to perform format memory for the first time you turn on the power
IP Address
To configure the EP.NMINI controller IP address
Subnet Mask
To configure the EP.NMINI controller subnet mask if required
Gateway
To configure the EP.NMINI controller Gateway if required
Server IP
To configure the Server IP base on the EntryPass Platform1 computer IP address

NMINI Programming Mode

To enter programming mode, press:

•F1

•123456 (default admin pin)

Admin Pin
•Enter programming mode
•01 Enter
•01 Enter
•01 Enter
•Key in new admin pin (6 digits)
•ESC X3

Security Level
•Enter programming mode
•01 Enter
•01 Enter
•02 Enter
•1 Enter (Press 1 to set it ON or press 0 to set it OFF)
•ESC X3

Unit Address
•Enter programming mode
•01 Enter
•01 Enter
•03 Enter
•Key in the new unit address (000 – 254 sets)
•ESC X3

Reader Mode
•Enter programming mode
•01 Enter
•01 Enter
•04 Enter
•1 Enter (Press 1 to set it ON or press 0 to set it OFF)
•ESC X3

Standalone
•Enter programming mode
•01 Enter
•01 Enter
•05 Enter
•1 Enter (Press 1 to set it ON or press 0 to set it OFF)
•ESC X3

MiNi Location
•Enter programming mode
•01 Enter
•01 Enter
•06 Enter
•1 Enter (Press 1 to set it ON or press 0 to set it OFF)
•ESC X3

Relay2 Function
•Enter programming mode
•01 Enter
•01 Enter
•07 Enter
•1 Enter (Press 1 to set it ON or pres 0 to set it OFF)
•ESC X3

IP Address
•Enter programming mode
•01 Enter
•01 Enter
•08 Enter
•Key in the new IP address
•ESC X3

Subnet Mask
•Enter programming mode
•01 Enter
•01 Enter
•09 Enter
•Key in the new Subnet Mask
•ESC X3

Gateway
•Enter programming mode
•01 Enter
•01 Enter
•10 Enter
•Key in the new Gateway
•ESC X3

Port Number
•Enter programming mode
•01 Enter
•01 Enter
•11 Enter
•Key in the new Port number
•ESC X3

Server IP
•Enter programming mode
•01 Enter
•01 Enter
•12 Enter
•Key in the new Server IP
•ESC X3

Disable Wizard
•Enter programming mode
•01 Enter
•01 Enter
•13 Enter
•1 Enter (Press 1 to set it ON or press 0 to set it OFF)
•ESC X3

Ethernet Speed
•Enter programming mode
•01 Enter
•01 Enter
•14 Enter
•Press 1 to set to 100Mbps (default) or press 0 to set to 10 Mbps
•ESC X3

NMINI Programming Mode

Inhibit Mode
- Enter programming mode
- 01 Enter
- 02 Enter
- 01 Enter
- 1 Enter (Press 1 to set it ON or press 0 to set it OFF)
- ESC X3

Security Mode
- Enter programming mode
- 01 Enter
- 02 Enter
- 02 Enter
- 0 Enter (Press 1 to set it ON or press 0 to set it OFF)
- ESC X3

Site Code 1
- Enter programming mode
- 01 Enter
- 02 Enter
- 03 Enter
- Key in the new site code (4 digits)
- ESC X3

Site Code 2
- Enter programming mode
- 01 Enter
- 02 Enter
- 04 Enter
- Key in the new site code (4 digits)
- ESC X3

Site Code 3
- Enter programming mode
- 01 Enter
- 02 Enter
- 05 Enter
- Key in the new site code (4 digits)
- ESC X3

Door Pin 1
- Enter programming mode
- 01 Enter
- 02 Enter
- 06 Enter
- Key in the new door pin (6 digits)
- 09 Enter
- 001
- ESC X3

Door Pin 2
- Enter programming mode
- 01 Enter
- 02 Enter
- 07 Enter
- Key in the new door pin (6 digits)
- 10 Enter
- 001
- ESC X3

Door Pin 3
- Enter programming mode
- 01 Enter
- 02 Enter
- 08 Enter
- Key in the new door pin (6 digits)
- 11 Enter
- 001
- ESC X3

Door Pin 1 Tz
- Enter programming mode
- 01 Enter
- 02 Enter
- 09 Enter
- Key in the new door pin timezone (000 – 255)
- ESC X3

Door Pin 2 Tz
- Enter programming mode
- 01 Enter
- 02 Enter
- 10 Enter
- Key in the new door pin timezone (000 – 255)
- ESC X3

Door Pin 3 Tz
- Enter programming mode
- 01 Enter
- 02 Enter
- 11 Enter
- Key in the new door pin timezone (000 – 255)
- ESC X3

Exit Button Tz
- Enter programming mode
- 01 Enter
- 02 Enter
- 12 Enter
- Key in the new exit button timezone (000 – 255)
- ESC X3

Auto Release Tz
- Enter programming mode
- 01 Enter
- 02 Enter
- 13 Enter
- Key in the new auto release timezone (000 – 255)
- ESC X3

Release Time
- Enter programming mode
- 01 Enter
- 02 Enter
- 14 Enter
- Key in the new release time (00 – 99)
- ESC X3

NMINI Programming Mode

Open Time
- Enter programming mode
- 01 Enter
- 02 Enter
- 15 Enter
- Key in the new open time (00 – 99)
- ESC X3

Pin Trials
- Enter programming mode
- 01 Enter
- 02 Enter
- 16 Enter
- Key in the new pin trials (00 – 09)
- ESC X3

Card+Pin Tz
- Enter programming mode
- 01 Enter
- 02 Enter
- 17 Enter
- Key in the new card+pin timezone (000 – 255)
- ESC X3

Date Setting
- Enter programming mode
- 01 Enter
- 03 Enter
- Key in the new date (DDMMYY)
- ESC X2

Time Setting
- Enter programming mode
- 01 Enter
- 04 Enter
- Key in the new time (HHMMSS)
- ESC X2

Reset Password
- Enter programming mode
- 01 Enter
- 05 Enter
- 01 Enter
- ESC X2

Reset Door Data
- Enter programming mode
- 01 Enter
- 05 Enter
- 02 Enter
- ESC X2

Format Memory
- Enter programming mode
- 01 Enter
- 05 Enter
- 03 Enter
- When finish formatting, a beep sound will be heard
- ESC X2

Factory Default
- Enter programming mode
- 01 Enter
- 05 Enter
- 04 Enter
- 1 Enter
- Key in the current admin pin
- When finish performing factory default, a beep sound will be heard

Install Card
- Enter programming mode
- 02 Enter
- 01 Enter
- 01 Enter
- Key in the card number (6 digits)
- ESC X3

Delete Card
- Enter programming mode
- 02 Enter
- 01 Enter
- 02 Enter
- Key in the card number (6 digits)
- ESC X3

View Card
- Enter programming mode
- 02 Enter
- 01 Enter
- 03 Enter
- Key in the card number (6 digits)
- ESC X4

Quick Install
- Enter programming mode
- 02 Enter
- 01 Enter
- 04 Enter
- Flash all the cards to be installed (card by card)
- ESC X4

Quick Delete
- Enter programming mode
- 02 Enter
- 01 Enter
- 05 Enter
- Flash all the cards to be deleted (card by card)
- ESC X4

Reset Card Pin
- Enter programming mode
- 02 Enter
- 01 Enter
- 06 Enter
- Key in the card number that need to perform pin reset
- ESC X3

NMINI Programming Mode

Reset Lockout
- Enter programming mode
- 02 Enter
- 01 Enter
- 07 Enter
- 1 Enter
- ESC X3

Reset Lockout Time
- Enter programming mode
- 02 Enter
- 01 Enter
- 08 Enter
- Key in the reset lockout time (HHMM)
- ESC X3

Total Card
- Enter programming mode
- 02 Enter
- 01 Enter
- 09 Enter
- ESC X3

Transaction
- Enter programming mode
- 02 Enter
- 02 Enter
- Press F3 button to view the next transaction event or F1 button to go back to previous transaction event
- ESC X3

Info Menu
- Enter programming mode
- 03 Enter
- ESC X2

Extra Info Menu
- Enter programming mode
- 04 Enter
- ESC X2

Card Number
- Enter programming mode
- 05 Enter
- 01 Enter
- Flash the card to check
- ESC X3

Card Binary
- Enter programming mode
- 05 Enter
- 02 Enter
- Flash the card to check
- ESC X3

Help Line Info
- Enter programming mode
- 05 Enter
- 03 Enter
- ESC X3

Cabling Information

Communication	Data Signal	Max Distance	Description
NMINI to NLC	RS232	10m (30 ft)	22 AWG, 2 Pairs, Shielded
NMINI to Exit Reader	Wiegand	10m (30 ft)	22 AWG, 2 Pairs, Shielded
NLC to Computer or Network Switch	Network	100m (300 ft)	24AWG, 4 Pairs (Cat 5e)
NLC to Electro-Magnetic Lock	Power	30m (100 ft)	18 AWG, 1 Pair
NLC to Push Button	Contact	30m (100 ft)	22AWG, 1 Pair
NLC to Door Sensor	Contact	30m (100 ft)	22AWG, 1 Pair